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Perfect score:
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Gapop 10.0 ,
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(without alignments)
93.385 Million cell updates/sec
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1: uniprot_sprot:*
2: uniprot_trembl:*
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54
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AAH58599
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Q96AC2
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                                                                                        Oggm28 macaca fasc
Ofilg2 drosophila
O8n7z3 homo sapien
O63317 rattus norv
O24987 giardia lam
O8c2x1 mus musculu
O61bb8 oligotropha
Cag28441 oligotrop
O96ac2 homo sapien
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094az8 arabidopsis
063316 rattus norv
06k499 oryza sativ
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Q7uws9 rhodopirell
Q7pe97 anopheles g
Q86yx3 homo sapien
P21959 eimeria ace
                  P16815 human cytom
Q6zp52 homo sapien
Bac85273 homo sapi
          Bac85273 homo sap
Q7qf28 anopheles
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 Q88ey6
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pseudomonas
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SEE FEE BOOK

Q7PER7; PRELIMINARY; PRT; 39 AA.
Q7PER7; PARELIMINARY; PRT; 39 AA.
Q1PER7; Q1-MAR-2004 (TrEMBLrel. 26, Last sequence update)
Q1-MAR-2004 (TrEMBLrel. 26, Last annotation update)
ENSANGP000000023374.
Name=ENSANGG00000023343;

Anopheles gambiae str. PEST

RESULT 2 Q7PER7

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		1; e+02; 19				•	re ar as it	roduc		of the	Pirkl E.,			mataceae		te)	•	AA.										
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                                                                                                                            Q7PE97 PRELIMINARY; PRT, Q7PE97; O1-MAR-2004 (TrEMBLrel. 26, Created) O1-MAR-2004 (TrEMBLrel. 26, Last seq O1-MAR-2004 (TrEMBLrel. 26, Last ann ENSANGEP0000022719 (Fragment).
Name=ENSANGG00000021658;
Anopheles gambiae str. PEST.
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Anopheles.
NCBI TaxID=180454;
[1]
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Q7UWS9;
01-OCT-2003
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SEQUENCE 49 AA; 5561 MW; D47FD5A9BFF7BA40 CRC64;
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Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases
-!- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry of preliminary data.
EMBL; AAAB01008326; EAA45619.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Proc. Natl. Acad. Sci. U.S.A. 100:8298-8303(2003)
EMBL; BX294135; CAD72283.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 strain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gloeckner F.O., Kube M., Bauer M., Teeling H., Lo
Ludwig W., Gade D., Beck A., Borzym K., Heitmann
Schlesner H., Amann R., Reinhardt R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=22735913; PubMed=12835416;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteria; Planctomycetes; Planctomycetacia; Planctomycetales; Planctomycetaceae; Pirellula.
NCBI_TaxID=117;
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NCBI_TaxID=180454;
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Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea; Ano
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4317 MW; 6963C9D228D7C8C7
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P21959;
O1-AUG-1991 (Rel. 19, Created)
O1-AUG-1991 (Rel. 19, Last sequence update)
O5-UUL-2004 (Rel. 44, Last annotation updat
EAMZP30-47 protein (Fragment).
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01-JUN-2003
01-MAR-2004
  NCBI_TaxID=5801;
                          Eimeria
                                     Eukaryota; Alveolata;
                                                           Eimeria acervulina.
                                                                                                                                                                                                                                                                                                                                                                                                                         Interro.
Pfam; PF00131; Metallocality
PRINTS; PR001860; MTVERTEBRATE
PRINTS; PR001860; MTVERTEBRATE
PRINTS; PR001860; MTVERTEBRATE
PRINTS; PR001860; PT0108701037762A CRC64;
PR001860; PT0108701037762A CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -!- FUNCTION: Metallothioneins have a high content of cysteine residues that bind various heavy metals (By similarity).
-!- SIMILARITY: Belongs to the metallothionein superfamily. Family 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (FEB-2001)
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Mammalia; Eutheria;
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                                       Apicomplexa; Coccidia; Eimeriida;
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Last annotation update)
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Pred. No. 9.3e+02;
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RESULT 8
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Q94AZ8;
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Q7PE39;
01-MAR-2004 (TrEMBLrel. 26, Created)
01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
ENSANGPO0000023751 (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                           Anopheles Genome Sequencing Consortium;
Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
-!- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry v
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Anopheles gambiae str. PEST.
Eukaryota; Metazoa; Arthropoda; H.
Neoptera; Endopterygota; Diptera;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of several related merozoite surface and rhoptry Exp. Parasitol. 70:353-362(1000)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN-PEST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                 preliminary data.
.; AAAB01002921; EAA45886.1;
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                                                                                                                                                                                                                                   Similarity 2; Conserv
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                                                                                                                                                                                       CXXXXXC 9
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                        PRT;
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a; Nematocera; Culicoidea; Ano
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01-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 01,
01-MAR-2002 (TrEMBLrel. 20,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hayashizaki Y., Ishida J., Jones T., Kamiya A., Karlin-Neumann Kawai J., Lam B., Lee J.M., Lin J., Miranda M., Narusaka M., Nguyen M., Onodera C.S., Palm C.J., Quach H.L., Sakurai T., Sat. Seki M., Southwick A., Tang C.C., Toriumi M., Wu H.C., Yamada K. Yamamura Y., Yu G., Yu S., Shinozaki K., Davis R.W., Theologis J. Submitted (APP-2000)
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01-DEC-2001 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
AT4922230/T10I14 60 (Hypothetical protein).
Arabidopsis thaliana (Mouse-ear cress).
Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheop Spermatophyta; Magnoliophyta; eudicotyledons; Core eudicots; eurosids II, Brassicales; Brassicaceae; Arabidopsis.
                                        Ly6-A antigen (Fragment).
Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chord
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Hypothetical protein.
SEQUENCE 88 AA; 90
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MEDILINE=22088475; PubMed=12093376;

Haas B.J., Volfovsky N., Town C.D., Troukhan
Feldmann K.A., Flavell R.B., White O., Salzbe
"Full-length messenger RNA sequences greatly
annotation.";
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EMBL; AY084624; AAM61187.1;
EMBL; AY094030; AAM16186.1;
GO; GO:0006952; P:defense re
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        Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR003614; Knot1.
SMART; SM00505; Knot1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genome
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2; Conserv
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                                                                                                                                                                                                                                                                                                                    PRELIMINARY;
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    Chordata;
Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9071 MW;
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                                                                                                                                                                                                                                    Created)
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Pred. No. 1.2e+03;
0; Mismatches 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2345DAB2B66E96A8 CRC64;
    Sciurognathi; Muridae;
                                                Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IEA
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        Murinae;
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RESULT 11
BAD22270
ID BAD22
AC BAD22
AC BAD22
AC 11-U
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Q6K499
ID Q6K499
ID Q6K49
AC Q6K49
AC Q6K49
DT 05-U

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Best Local S
Matches 2
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O6K499;

O6K499;

O5-JUL-2004 (TrEMBLrel. 27, Created)

O5-JUL-2004 (TrEMBLrel. 27, Last sequence update)

O5-JUL-2004 (TrEMBLrel. 27, Last amotation update)

O5-JUL-2004 (TrEMBLrel. 27, Last amotation update)

Hypothetical protein OJ1595_D08.20;

Name=OJ1595_D08.20;

O7yza sativa (japonica cultivar-group).

C Eukaryota; Viridiplantae; Streptophyta; Embryophyta; T

C Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poac
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Best I
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BAD22270;
01-JUN-2004
01-JUN-2004
01-JUN-2004
                                                                                                                           Oryza Bativa (japonica cultivar-group).
Eukaryota; Viridiplantae; Streptophyta; El
Spermatophyta; Magnoliophyta; Liliopsida;
Ehrhartoideae; Oryzeae; Oryza; Oryza sati
NCBI_TaxID=39947;
                                                                                                                                                                                                                                                                                                                                                                    01-JUN-2004 (TrEMBLrel. 27, Created)
01-JUN-2004 (TrEMBLrel. 27, Last sequence update)
01-JUN-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein OJI595_D08.20.
0JI595_D08.20.
         SEQUENCE FROM N.A. STRAIN=cv. Nipponl
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Sasaki T., Matsumoto T., Hattori M., Sakaki Y., Katayose Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases. EMBL; AP005574; BBD22270.1; -.

Hypothetical protein.

SEQUENCE 113 AA; 12326 MW; C2A6C98129828244 CRC64;
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Pfam; PF00021; UPAR LY6; 1.
SMART; SM00134; LU; 1.
NON TER 111 111
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STRAIN-Sprague-Dawley; TISSUE-Kidney;

MEDLINE-90152758; PubMed=2154400;

Friedman S., Palfree R.G.E., Sirlin S., Haemmerling U.;

"Analysis of three distinct Ly6-A-related cDNA sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=39947;
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Nipponbare,
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Pred. No. 1.4e
0; Mismatches
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Pred. No. 1.4e
0; Mismatches
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1.4e+03;
5;
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a; Poales; Poaceae;
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RESULT 13 CD59_SHV21

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CD59_SHV21 Q00996; 01-APR-1993 01-APR-1993

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Best Local
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"The genome of herpesvirus saimiri Ce
transforming human T cells.";
Virology 314:471-487(2003).
EMBL; Y13183; CAA73629.1; -.
EMBL; Y13183; CAA73629.1; -.
EMBL; P13987; LERG.
InterPro; IPR003632; Ly-6 CD59.
InterPro; IPR003632; Ly-6 UPAR.
Pfam; PF00021; UPAR LY6; I.
ProDom; PD003128; Ly-6 CD59; 1.
SMART; SM00134; LU; 1.

BROGITE: BEGO06313; IV6 UDAR. 1
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O1-JAN-1998 (TREMBLrel. 05, C
O1-JAN-1998 (TREMBLrel. 05, L
O5-JUL-2004 (TREMBLrel. 27, L
CD59 protein (Viral CD59 anti
Name=orf15; Synonyms=vCD59;
Salmiriine herpesvirus 2.
Viruses; dsDNA viruses, no RN
Gammaherpesvirinae; Rhadinovi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE-9837620; PubMed=9371569;
Knappe A., Hiller C., Thurau M., Wittmann S., Hofmann H.,
Fleckenstein B., Fickenscher H.;
"The superantigen-homologous viral immediate-early gene iel4/vsag
herpesvirus saimiri-transformed human T cells.";
J., Virol. 71:9124-9133(1997).
                                                                                                                                                                          PROSITE; PS00983; LY6 UPAR; 1.
SEQUENCE 116 AA; 13172 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=22918177; PubMed=14554077;
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"Oryza sativa nippombare (GA3)
clone:0J1595_D08."
Submitted (JUL-2002) to the EN
EMBL, AP005574; BAD22270.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
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Rhadinovirus.
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28.6%;
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(GA3) genomic
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C488 which is c
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c DNA, chro
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05-JUL-2004 (Rel. 44, Last annotation update)

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RESULT 14
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EMBL; X64273; CAA45655.1; -.
HSSP; P13987; 1ERG.
InterPro; IPR003632; Ly-6 CD59.
InterPro; IPR001526; LY6 UPAR.
Pfam; PF00021; UPAR LY6; 1.
ProDom; PD003128; Ly-6 CD59; 1.
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Q9GM28 PRELIMINARY;
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01-MAR-2001 (TrEMBLrel. 16,
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DOMAIN
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SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                              or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       membrane glycoprotein CD59
Virology 190:527-530(1992)
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Albrecht J.-C., Ni
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=92333688; PubMed=1321287;
Albrecht J.-C., Nicholas J., Biller D., Camero
Newman C., Wittmann S., Craxton M.A., Coleman
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Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
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UPAR/Ly6.
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); Mismatches
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                       124
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Dleman H., Fleckenstein
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05-JUL-2004
05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
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01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Hypothetical protein.
Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PubMed=14709175;
Hild M., Beckmann B., Haas S., Koch B., Solovyev V., Busold C., Fellenberg K., Boutros M., Vingron M., Sauer F., Hoheisel J., Fellenberg K., Boutros M., Vingron M., Sauer F., Hoheisel J., Fellenberg K., Boutros M., Vingron M., Sauer F., Hoheisel J., Fellenberg K., Boutros M., Sauer F., Hoheisel J., Fallenberg K., Boutros M., Vingron M., Sauer F., Hoheisel J., Fallenberg K., Boutros M., Fallenberg K., Fallenberg K., Boutros M., Fallenberg K., Fal
                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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EMBL; AB049858; BAB16744.1; -.
Hypothetical protein.
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Hirai M., Terao K., Suzuki Y., Sugano S., Hashimoto K.;
"Assignment of 118 novel cDNAs of cynomolgus monkey brain to
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MEDLINE=21458551; PubMed=11574149;
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GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.

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RESULT 1 ABO23576 ID ABO23576 AC ABO23 XX ABO2 XX ABO2 XX Y AX ABO2 XX Y Cand KW Cand KW Cand KW Path XX Path XX Path XX Myco XX Myco XX Myco XX Myco XX B70 CRAM PA (RAM PA (Mycoplasma pneumoniae. pathogenic Candidate protein identification; pathogen; anti-infective; outlier protein; virulence protein; antigen; drug target protein; Mycoplasma pneumoniae outlier 04-SEP-2003 AB023576; ABO23576 standard; organism; antimicrobial. (first protein; 103 entry) protein B #4

ALIGNMENTS

US2003039963-A1.

27-FEB-2003.

30-MAR-2001; 2001US-00820843

30-MAR-2001; 2001US-00820843

(BRAH/) BRAHMACHARI S K. (RAMA/) RAMACHANDRAN S. (NAND/) NANDI T.

(BHIM/) RAMACHANDRAN I NANDI T. BHIMARAO C.

Brahmachari SK, Ramachandran Ś Nandi T, Bhimarao Ü

2003-492159/46.

Identifying candidate proteins useful as anti-infectives involves matching outlier protein sequences with protein sequences in datal in databases.

Example 7; Page 78; 117pp; English.

The present invention relates to a method for identifying candidate proteins in pathogens useful as anti-infectives. The invention discloses a computational method which involves the calculation of several sequence attributes and their subsequence analysis results in the identification of outlier proteins in different pathogens. The method is useful for the identification of outlier proteins (e.g. virulence proteins, antigens or proteins used as drug targets) in pathogenic organisms. The method of the invention provides reproducible results as it does not depend on the variable biochemical characterisation of proteins. ABO23500-ABO23617 represent outlier proteins identified from different pathogenic organisms

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RESULT 2
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AAG96291 standard; peptide; 10 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a method for reducing the biological activity of a multimeric protein having at least 2 promoters. It comprises (a) providing a factor that interacts with at least one portion of at least one of the promoters which associates with a portion of the other promoter in the absence of the factor; and (b) mixing the factor with the multimeric protein so that the factor interacts with the portion(s) and disrupts association of at least a portion of the promoters. The method and compounds are useful for inhibiting neurotrophin-mediated activities selected from neurotrophin receptor binding, neuron survival, neurite outgrowth and epileptic effects. The present sequence is shown in the
                                                                                                                                                                                                                                                                                                                                                                                                    outgrowth and epileptic effects. specification
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                                                                                                                                                                                                                                                                                                                                               Sequence 10 AA;
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nes 3; Conserv
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Pred. No. 1.2e+04;
                                                                                                                                                                                                                                                                  Score 18; DB 2;
Pred. No. 5.8e+03;
                                                                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                                                                                                           Length 10;
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                       13-DEC-1999;
                                                                                                                                                        Human complementary peptide,
                                                                                                                                                                                                                                                                                                                                                                    Sequence 10
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  (PROT-) PROTEOM LTD
                                           13-DEC-2000;
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                                                                                                               Homo
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                                                                                                                                                                                                                        AAG96207 standard;
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                         The invention relates to a set of complementary peptide ligands generated from the human genome. The complementary peptides interact with their relevant target proteins encoded in the human genome. They can be used as reagents in drug discovery and as lead ligands to facilitate drug design and development. The present sequence is a complementary peptide provided in the specification
                                                                                                                                                 A set of peptide ligands consisting of specific complementary peptides proteins encoded by genes of the human genome, useful in an assay for screening and identifying of one or more novel peptides which are drug candidates or pro-drugs.
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Pred. No. 5.8e+03;
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Sequence 10

Human complementary

peptide, entry)

SEQ ID NO:

18-SEP-2001 AAG96349

(first

AAG96349 standard; peptide; 10

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RESULT 6
AAG96205
ID AAG9
XX AAG9
AC AAG9
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XX Huma
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RESULT 7
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2; Conserva
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Pred. No. 5.8e+03;
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Matches 2
A set of peptide ligands consisting of specific complementary peptides proteins encoded by genes of the human genome; useful in an assay for
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                                                                                                                                                Roberts
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Pred. No. 5.8e+03;
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Sequence
                                                                                                                     The invention relates to a set of complementary peptide ligands generated from the human genome. The complementary peptides interact with their relevant target proteins encoded in the human genome. They can be used as reagents in drug discovery and as lead ligands to facilitate drug design and development. The present sequence is a complementary peptide provided in the specification
                                                                                                                                                                                                                                                                                                                            A set of peptide ligands consisting of specific complementary peptides proteins encoded by genes of the human genome, useful in an assay for screening and identifying of one or more novel peptides which are drug
                                                                                                                                                                                                                                                                                                               candidates or pro-drugs.
                                                                                                                                                                                                                                                                    Example 4; Page 404; 646pp;
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                   Score 18; I
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ore 18; DB 4;
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                     WO200142277-A2
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                                                                                                                                                                                                                                                                                                         Sequence 10 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                 A set of peptide ligands consisting of specific complementary peptides proteins encoded by genes of the human genome, useful in an assay for screening and identifying of one or more novel peptides which are drug candidates or pro-drugs.
                                                                Human; complementary
                                                                                     Human complementary peptide,
                                                                                                                                     AAG96333;
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                                          Homo sapiens
                                                                                                                                                       AAG96333 standard; peptide;
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5.8e+03;
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                                                             A set of peptide ligands consisting of specific complementary peptides proteins encoded by genes of the human genome, useful in an assay for screening and identifying of one or more novel peptides which are drug candidates or pro-drugs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a set of complementary peptide ligands generated from the human genome. The complementary peptides interact with their freelevant target proteins encoded in the human genome. They can be used as reagents in drug discovery and as lead ligands to facilitate drug design and development. The present sequence is a complementary peptide provided in the specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A set of peptide ligands consisting of specific complementary peptides proteins encoded by genes of the human genome, useful in an assay for screening and identifying of one or more novel peptides which are drug
The invention relates to a set of complementary peptide ligands from the human genome. The complementary peptides interact with
                                                                                                                                                    Roberts GW,
                                                                                                                                                                                                      13-DEC-1999;
                                                                                                                                                                                                                             13-DEC-2000; 2000WO-GB004776.
                                                                                                                                                                                                                                                      14-JUN-2001.
                                                                                                                                                                                                                                                                               WO200142277-A2
                                                                                                                                                                                                                                                                                                                              Human; complementary peptide; ligand; drug discovery; drug design.
                                                                                                                                                                                                                                                                                                                                                      Human complementary peptide,
                                                                                                                                                                                                                                                                                                                                                                                18-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                        AAG96193;
                                                                                                                                                                                                                                                                                                                                                                                                                                  AAG96193 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 10 AA;
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                                       Example 4;
                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 4; Page 403; 646pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   candidates or pro-drugs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           13-DEC-1999;
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                                                                                                                                                                              (PROT-) PROTEOM LTD
                                                                                                                             2001-408419/43.
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2; Conserv
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                                     Page 384; 646pp; English.
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                                                                                                                                                     Heal JR;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 18; DB 4; Pred. No. 5.8e+03;
                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO:
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relevant target proteins encoded in the human genome. They can be used as reagents in drug discovery and as lead ligands to facilitate drug design and development. The present sequence is a complementary peptide provided in the specification

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RESULT 13
AAMS4432
ID AAMS4
XX AAMS4
XX IS Human
XX Prost
RESULT 14
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Best Local
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                                                                                                                                                                                                                                                                                                       AAW54426-W54433 represent synthetic peptide fragments of designed from the human PS112 protein isolated from a prostate library. These peptides are used in a novel method of detecting the presence of a target PS112 polynucleotide in a test sample. The method can also be used to detect mRNA of PS112 in a test sample. The method can be used for diagnosis of prostate cancer, as the presence of PS112 is an indicator of prostate cancer. Antibodies against the polypeptides may be used as markers, or to
                                                                                                                                                                                                                                                     Sequence 12 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Detecting a target PS112 polynucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 1998-240838/21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cohen M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               08-OCT-1996;
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Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Prostate; disease; PS112 gene; detection; diagnosis; cancer; treatment;
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                                                                   CSSSSSC
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                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nan PN, Gordon J, Hodges SC,
Roberts-Rapp L, Russell JC,
                                                                   J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  92; 104pp; English
                                                                                                                                                                            33.3%;
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                                                                                                                                                    Score 18; DB Pred. No. 6.3e
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Pred. No. 5.8e
0; Mismatches
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                                                                                                                                                                          DB 2;
6.3e+03;
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Stroupe SD;
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                                                                                                                                                Gaps
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RESULT 15
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Best Local S
Matches 2
                                                                                                                                                                                cytostatic; gene therapy; PS112; recombinant expression system; PS112 epitope; prostate disease; tumours; metastasis; predispos prostate cancer; epitope.
                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                 Human PS112
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AABO8416-23 represent antigenic peptides derived from a protein which is encoded by a human prostate cancer associated gene, designated PS112. Th peptides are used to raise antibodies. PS112 sequences are useful for detecting, diagnosing, staging, monitoring, prognosticating, preventing, treating, or determining the predisposition of an individual to disease and conditions of the prostate, such as prostate cancer, tumours and
                                                                                                                                                                                                                                                                                                                                                                                                                             23-SEP-2004
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                                                                                                                                                                                                                        tumours; metastasis; predisposition;
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24-JUN-2004.

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The invention describes a method of detecting the presence of a target CR PS112 polynucleotide in a test sample. The method comprises: contacting the test sample with at least one PS112-specific polynucleotide or its C complement; and detecting the presence of the target PS112 polynucleotide CC in the test sample, where the PS112-specific polynucleotide has at least 50% identity to a polynucleotide comprising a sequence of 367, 214, 205, CC 256, 246, 277, 251, 233, 233, or 1297 by (SEQ ID NOS; 1-10) or their CC atest sample; a test kit, useful for detecting PS112 polynucleotide in CC atest sample; a purified polynucleotide or fragment derived from a PS112 gene; a recombinant expression system comprising a nucleic acid sequence that includes an open reading frame derived from PS112 operably linked to CC a control sequence ompatible with a desired host, where the nucleic acid sequence of SEQ ID NOS: 1-10, or their fragments or complements; a cell transfected with the recombinant CC expression system or with a nucleic acid sequence encoding at least so their fragments or complements; a composition of matter comprising CC a PS112 polynucleotide or its fragment, where the polynucleotide has at least so? identity to a sequence comprises SEQ ID NOS: 1-0. Or their fragments or complements; a composition of matter comprising CC polynucleotide of SEQ ID NOS: 4-8; and a gene or its fragment comprising CC antibodies are useful in detecting, diagnosing, staging, monitoring, CC antibodies are useful in detecting, diagnosing, staging, monitoring, CC diseases and conditions of the prostate, e.g. prostate cancer. This is cc psile antibodies.
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                                                               Query Match .
Best Local Si
Matches 2;
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08-OCT-1997;
15-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Detecting a target PS112 polynucleotide, useful in diagnosing, staging, monitoring, prognosticating, preventing and treating prostate cancer, comprises contacting the test sample with PS112-specific polynucleotide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cohen M, Friedman PN, Gordon J, Hodges SC, Kratochvil JD, Roberts-Rapp L, Russell JC,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (HODG/)
(KLAS/)
(KRAT/)
                                                                                                                                 Sequence 12 AA;
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                                                                                                                                                                    PS112-antibodies
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HODGES S.C.
KLASS M.R.
KRATOCHVIL J.D.
ROBERTS-RAPP L.
RUSSELL J.C.
STROUPE S.D.
YU H.
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FRIEDMAN P N.
                                                                Similarity
2; Conserv
CSSSSSC 7
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                                                                Conservative
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97US-00946869.
99US-00418887.
                                                                              33.3%;
28.6%;
                                                                Score 18; DB 8; Le
Pred. No. 6.3e+03;
0; Mismatches 5;
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Stroupe SD,
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Job time : 165 secs Search completed: December 22, 2004, 06:30:36 This Page Blank (uspto)

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Result
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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     Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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seq length: 200000000
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                                                                                                                                                                                                                                                                                                                                                                                   Query
Match
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1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*

2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*
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Gapop 10.0 , Gapext
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54
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            US-09-142-524D-141
US-09-112-24D-142
US-09-112-24D-132
US-09-270-767-5804
US-09-270-767-5804
US-09-816-721-1
PCT-US96-01720-8
US-09-811-976-6084
US-09-811-976-6084
US-09-812-991A-2726
US-09-252-991A-2556
US-09-252-991A-2551
US-09-252-991A-2551
US-09-252-991A-2551
US-09-252-991A-2515
US-09-252-991A-1732
US-09-252-991A-1732
US-09-252-991A-1732
US-09-252-991A-31875
US-09-252-991A-31875
US-09-252-991A-31875
US-09-252-991A-31875
US-09-252-991A-31875
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Sequence 142, Appli
Sequence 3, Appli
Sequence 40588, A
Sequence 55804, A
Sequence 1, Appli
Sequence 8, Appli
Sequence 6084, Appl
Sequence 6084, Appl
Sequence 90, Appl
Sequence 90, Appl
Sequence 27726, A
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sequence
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Sequence
Sequence
Sequence
              17322, A
17476, A
24209, A
24277, A
31875, A
30633, A
25, App1
29098, A
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215, App
215, App
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22556, A
25069, A
16583, A
29513, A
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45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28
18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	1.8
33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3
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US-09-328-352-6745	US-09-252-991A-26942	US-09-015-557-2	US-08-696-770-2	US-09-252-991A-18709	US-09-252-991A-24427	US-09-252-991A-26170	US-09-252-991A-20062	US-08-209-521-11	US-09-252-991A-24634	US-09-252-991A-17001	US-09-252-991A-17158	US-09-270-767-51411	US-09-270-767-36194	US-09-252-991A-22723	US-09-252-991A-17994	US-09-252-991A-31386	US-09-252-991A-25719
Seguence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
6745, Ap	26942, A	Appli	Appli	18709, A	24427, A	26170, A	20062, A	11, Appl	24634, A	17001, A	17158, A	51411, A	36194, A	22723, A	17994, A	31386, A	25719, A

ALIGNMENTS

RESULT 1 US-09-142-524D-141

RESULT 2 US-09-142-524D-142 IS Sequence 142, Application US/09142524D Fatent No. 6719976 GENERAL INFORMATION: APPLICANT: Some, Toshio APPLICANT: Kume, Akinori APPLICANT: Iwama, Akiko APPLICANT: Iwama, Akiko APPLICANT: Iwama, Akiko FAPPLICANT: Iwama, Akiko CONTRIBUTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease FILE REFERENCE: SPO-103 CURRENT APPLICATION NUMBER: US/09/142,524D	Oy 3 CXXXXXC 9 Db 8 CTSASAC 14	Tryj2 peptide, Figure	PRIOR PELLING DATE: 1997-09740 PRIOR PELLING DATE: 1997-03-10 PRIOR PELLING DATE: 1997-03-10 NUMBER OF SEQ ID NOS: 174 SOFTWARE: Patentin version 3.1 SEQ ID NO 141 LENGTH: 15 TYPE: PRI ORGANISM: Cryptomeria japonica	; Sequence 141, Application US/09142524D ; Patent No. 6719976 ; GENERAL INFORMATION: APPLICANT: Sone, Toshio ; APPLICANT: Kume, Akinori ; APPLICANT: Iwama, Akiko ; APPLICANT: Iwama, Akiko ; APPLICANT: Iwama, Akiko ; APPLICANT: Kino, Kohsuke ; TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea; ; FILE REFERENCE: SPO-103 ; CURRENT APPLICATION NUMBER: US/09/142,524D

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CURRENT APPLICATION NUMBER: US/09/731,242A
CURRENT FILING DATE: 2000-12-06
PRIOR APPLICATION NUMBER: US 60/169,179
PRIOR FILING DATE: 1999-12-06
PRIOR APPLICATION NUMBER: US 09/009,388
PRIOR FILING DATE: 1998-01-20
NUMBER OF SEQ ID NOS: 53
SOFTWARE: PATENTIA VERSION 3.0
SEQ ID NO 3
LENGTH: 24
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 174
SOFTWARE: PatentIn version 3.1
SEQ ID NO 142
LENGTH: 15
TYPE: PRT
ORGANISM: Cryptomeria japonica
PEATURE:
NAME/KEY: MISC_FEATURE
LOCATION: (1)...(15)
OTHER INFORMATION: Cryj2 peptide, Figure 2
                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Marches 2; Conserve
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US-09-270-767-40588
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US-09-731-242A-3
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Best Local Similarity 20.0
Conservative
                                                                                                                        Sequence 40588, Application US/09270767
Patent No. 6703491
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: KRANZ, DAVID
APPLICANT: WITTRUP, K. DANE
APPLICANT: HOLLER, PHILLIP
TITLE OF INVENTION: HIGH AFFINITY TCR PROTEINS.
FILE REFERENCE: 89-99
FILE REFERENCE: 89-99
FILE REFERENCE: 89-99
                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: misc feature LOCATION: ()..()
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28.6%;
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Pred. No. 1.9e+03;
0; Mismatches 5
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Pred. No. 1.5e+03
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                                                                                                                                                                                                                                                                                                                                                            Length 24;
                                                                                      Drosophila melanogaster
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TYPE: PRT
OGRANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic
NAME/KEY: misc_feature
OTHER INFORMATION: "D196H oligo"
US-09-816-721-1
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; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-40588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; ORGANISM: Drosophila melanogaster US-09-270-767-55804
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US-09-270-767-55804
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                                                                                                                                                                                                                         APPLICANT: Haren, Lubbert D.
APPLICANT: Dijkstra, Bauke H.
TITLE OF INVENTION: No. 6777215e1 Cyclomaltodextrin Glucanotransferase Variants
FILE REFERENCE: 5347.210-US
CURRENT APPLICATION NUMBER: US/09/816,721
CURRENT FILING DATE: 2001-03-22
NUMBER OF SEQ ID NOS: 2
SOFTWARE: Patentin version 3.1
SEQ ID NO 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Homburger et al.
APPLICANT: Homburger et al.
TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
FILE REFERENCE: File Reference: 7326-094
CURRENT APPLICATION NUMBER: US/09/270,767
CURRENT FILING DATE: 1999-03-17
NUMBER OF SEQ ID NOS: 62517
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 55804
                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: No. 6777215ozymes A/S
APPLICANT: Andersen, Carsten
APPLICANT: Nielsen, Bjarne R.
                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1, Application US/09816721 Patent No. 6777215
                                Matches
                                                 Best Local
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                                                              Query Match
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                                                                                                                                                                                                             LENGTH:
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 3 CXXXXXXC 9
                              Similarity 2; Conserv
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                                 Conservative
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                                                 33.3%;
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Pred. No.
                                                 Score 18;
Pred. No.
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Pred. No. 2.2e+03;
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                                                 DB 4;
2.3e+03;
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RESULT 7 PCT-US96-01720-8

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Best Local Similarity 28.6%;
Matches 2; Conservative
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REFERENCE/DOCKET NUMBER: 163
INFORMATION FOR SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
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PRIOR APPLICATION DATA:
US 08/387,055
                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Bard, Jonathan A.
TITLE OF INVENTION: USA ENCODING GALANN GALR3 RECEPTORS AND
TITLE OF INVENTION: USES THEREOF
NUMBER OF SEQUENCES: 59
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,
                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
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FILING DATE: 09-FEB-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                               SOFTWARE: PatentIn Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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                                                        APPLICATION NUMBER: US/08/900,230 FILING DATE: 23-JUL-1997 CLASSIFICATION: 435
                                                                                                                                                                                                                                                  CITY: New York
STATE: New York
COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                          STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Parmelee, Steven W. REGISTRATION NUMBER: 31,9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER:
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1185 Avenue of The Americas
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Pred. No. 2.7e+03;
0; Mismatches 5
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                   GENERAL INFORMATION:
APPLICANT: No. 6747135an, Garry P.
APPLICANT: Rozinov, Michael N.
APPLICANT: Rozinov, Michael N.
TITLE OF INVENTION: Fluorescent Dye Binding Peptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: GENSET.054PR2
CURRENT APPLICATION NUMBER: US/09/621,976
CURRENT FILING DATE: 2000-07-21
NUMBER OF SEQ ID NOS: 19335
SOFTWARE: Patent.pm
SEQ ID NO 6084
                                                                                         Sequence 90, Application US/09419381 Patent No. 6747135
                                                                                                                                                                                                                                                            Best
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Patent No. 6639063
GENERAL INFORMATION:
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APPLICANT: Jobert, S.
APPLICANT: Giordano, J.Y.
TITLE OF INVENTION: ESTs and Encoded Human Proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 212-391-0525
INFORMATION FOR SEQ ID NO:
CURRENT APPLICATION NUMBER: US/09/419,381
                                                                                                                                                                                                                                                                                                                 LOCATION: 69
OTHER INFORMATION: Xaa = Gly,Arg
NAME/KEY: UNSURE
LOCATION: 18
OTHER INFORMATION: Xaa = Lye,Arg
                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 68
OTHER INFORMATION: Xaa = Ala, Thr
NAME/KEY: UNSURE
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TELECOMMUNICATION INFORMATION:
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nes 2; Conserv
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amino acid
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Pred. No. 3.3e+03;
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Pred. No. 2.7e+03
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US-08-467-023-189
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US-09-252-991A-27726
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SEQ ID NO 90
LENGTH: 90
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27726
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PRIOR FILLING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILLING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 27726
LENGTH: 125
TYPE: PRT
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Best Local Similarity
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Best Local Similarity 28.6%;
Matches 2; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: ARRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
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PRIOR APPLICATION NUMBER: 60/104,465
PRIOR FILING DATE: 1998-10-16
NUMBER OF SEQ ID NOS: 122
                                                      APPLICANT: Garman, Richard D;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Yeung, Siu-mei H.;
APPLICANT: Brauer, Andrew;
APPLICANT: Exley, Mark A.;
APPLICANT: Exley, Mark A.;
APPLICANT: Powers, Steven P.
TITLE OF INVENTION: Allergenic Proteins And Peptides From
TITLE OF INVENTION: Japanese Cedar Pollen
NUMBER OF SEQUENCES: 261
                                                                                                                                                                                                                                                                                                                                     tent No.
                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                    APPLICANT:
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  ADDRESSEE:
STREET: 6
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6090386
: ImmuLogic Pharmaceutical Corporation, Inc. 610 Lincoln St
                                                                                                                                                                                                                                                  Bond, Julian F.;
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Pollock, Joanne;
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Pred. No. 4.4e+03;
0; Mismatches 5
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Pred. No. 3.7e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 125;
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                                                                                                                                             ; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22556
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; MOLECULE TYPE: peptide
; FRAGMENT TYPE: internal
US-08-467-023-189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-252-991A-22556
                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: MAIC J. Rubenfield et al.
APPLICANT: MAIC J. RUBENFIELD ET AL.
TITLE OF INVENTION: ACCID ACID AMD AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: ACCUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
                                                                                                                                                                                                                      NUMBER OF SEQ ID NOS:
SEQ ID NO 22556
                                                                        Matches
                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 22556, Application US/09252991A Patent No. 6551795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IEM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/467,023

FILING DATE: June 6, 1995

CLASSIFICATION 124

PRIOR APPLICATION NUMBER: 08/350,225

APPLICATION NUMBER: 08/350,225

APPLICATION NUMBER: 08/350,225

APPLICATION NUMBER: 38/350,225

APPLICATION NUMBER: 38/350,225

APPLICATION NUMBER: 38/350,225
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity Matches 2; Conserv
                                                                                                                                                                                                                                                                                               FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 199-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: US 60/094,190 PRIOR FILING DATE: 1998-07-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 189:
SEQUENCE CHARACTERISTICS:
LENGTH: 127 amino acids
                                                                                                                                                                                        TYPE: PRT
                                                                                                                                                                                                        ENGTH: 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER: 02
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Waltham
STATE: MA
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                                 3 CXXXXXC 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3 CXXXXXC 9
                                                                    Similarity 2; Conserv
CSAASAC 39
                                                                      Conservative
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                                                                                      33.3%;
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                                                                                        Score 18;
Pred. No.
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Pred. No.
                                                                      Mismatches
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                                                                                        4.5e+03
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                                                                                                        Length 132;
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CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 25069
LENGTH: 134
TYPE: PRT
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Search completed: December 22, 2004, 06:35:21 Job time: 40 secs
                                                                                                     밁
                                                                                                                                                                                                                                                                                                       ; ORGANISM: Pseudomonas aeruginosa US-09-252-991A-16583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ₽
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US-09-252-991A-25069
                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: MAIC J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US/074,788
PRIOR PRILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER: OF SEQ ID NOS: 33142
SEQ ID NO 16583
LENGTH: 138
TYPE: DET
                                                                                                                                                                                                  Query Match 33.3%; Score 18; DB 4; Length 138; Best Local Similarity 28.6%; Pred. No. 4.6e+03; Matches 2; Conservative 0; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 16583, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 33.3%;
Best Local Similarity 28.6%;
Matches 2; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILE REFERENCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: MAYC J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

FILE REFERENCE: 107196.136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NERAL INFORMATION:
                                                                                                  53 CASTTAC 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11 CSASTTC 17
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GenCore version 5.1.6 Copyright (c) 1993 - 2004 Compugen Ltd.

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Result
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Maximum DB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Run on:
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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                                                                                                                                                                                                                                                                                                                        Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         seq length: 0
seq length: 2000000000
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| (gn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
| (gn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
| (gn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
| (gn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
| (gn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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/cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
/cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
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6/ptodata/1/pubpaa/PCTUS PUBCOMB.pep:*
6/ptodata/1/pubpaa/US08 NEW PUB.pep:*
6/ptodata/1/pubpaa/US08 PUBCOMB.pep:*
6/ptodata/1/pubpaa/US08 PUBCOMB.pep:*
6/ptodata/1/pubpaa/US09A PUBCOMB.pep:*
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                         US-09-820-843A-77
US-09-572-404B-2385
US-09-572-404B-2389
US-09-572-404B-2399
US-09-572-404B-2401
US-09-572-404B-2485
US-09-572-404B-2527
US-09-572-404B-2527
US-09-572-404B-2523
US-09-572-404B-2523
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Sequence 77, Appl
Sequence 2385, Ap
Sequence 2387, Ap
Sequence 2399, Ap
Sequence 2401, Ap
Sequence 2425, Ap
Sequence 2485, Ap
Sequence 2527, Ap
Sequence 2533, Ap
Sequence 2543, Ap
Sequence 2543, Ap
Sequence 2543, Ap
Sequence 2543, Appl
Sequence 257, Appl
Sequence 257, Appl
Sequence 257, Appl
Sequence 2141, Appl
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4 5	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14
18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
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81	77	75	71	71	71	71	71	71	71	71	71	70	67	67	66	63	58	57	53	53	50	44	39	36	33	28	25	25	24	18	15
15	9	9	14	14	14	14	14	14	14	14	4	5	17	15	16	17	14	17	17	17	8	17	14	ø	16	ø	14	14	9	14	14
US-10-131-487A-107	US-10-437-963-199736	-140-1	9-806-	-10-269-806-11	US-10-269-806-109	US-10-269-806-85	0-269-806-7	-10-269-806-6		-10-269-806-4	-10-011-931-3	-10-424-599-2	-10-425-115-	-10-424-599-2	-10-437-963-1	-10-425-115-2	-10-029	0544	US-10-425-115-353488	US-10-425-115-321769	US-08-900-230-58	0-206-	US-10-029-386-31509	US-09-816-721-1	US-10-697-399-10	US-09-864-761-41104	-981	US-10-361-811-292	09-731-242A-	-10-225-5674	US-10-354-240-142
Sequence 107, App	æ	11, /	133,	117,	109,	85,	77,	65,	æ	45,	32,		Sequence 196666,					Sequence 205445,	35348	Sequence 321769,	58,	Sequence 83, Appl	Seguence 31509, A	1, At	æ	41104,	Sequence 292, App	e 292,	3, Appl	1778,	Sequence 142, App

ALIGNMENTS

RESULT 1

```
LENGTH: 103
; TYPE: PRT
; ORGANISM: M. pneumoniae
; PEATURE:
; NAME/KEY: misc_feature
OTHER INFORMATION: B01_orf103b Protein
; NAME/KEY: misc_feature
; OTHER INFORMATION: g1|1673772
US-09-820-843A-77
                                                                                                  밁
                                                                                                                                  δ
                  RESULT 2
US-09-572-404B-2385
; Sequence 2385, Application US/09572404B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-820-843A-77
                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/820,843A
CURRENT FILING DATE: 2001-03-30
NUMBER OF SEQ ID NOS: 118
SOFTWARE: PATENTIN VERSION 3.0
SEQ ID NO 77
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 77, Application US/09820843A

Publication No. US20030039963A1

GENERAL INFORMATION:

GENERAL INFORMATION:

APPLICANT: Council of Scientific and Industrial Research.

TITLE OF INVENTION: A COMPUTATIONAL METHOD FOR THE IDENT.

TITLE OF INVENTION: USEFUL AS ANTI-INFECTIVES

FILE REFERENCE: Q63915
                                                                                                                                                                    Query Match
Best Local Similarity
Matches 3; Conserv
                                                                                              CSSISFCSLASSSARLRYSSSH 74
                                                                                                                                    Conservative
                                                                                                                                                                                          35.2%;
13.6%;
                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                            Score 19;
Pred. No.
                                                                                                                                                                                              vi
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5.5e+03;
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                                                                                                                                                                                                               Length 103;
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Sequence 239, Application US/09572404B
Publication No. US20030078374A1
GENERAL INFORMATION:
APPLICANT: Proteom Ltd
TITLE OF INVENTION: Complementary peptide ligands fro
FILE REFERENCE: Human patent
CURRENT APPLICATION NUMBER: US/09/572,404B
CURRENT FILING DATE: 2000-05-17
NUMBER OF SEQ ID NOS: 4203
SOFTWARE: ProtPatent version 1.0
SEQ ID NO 2399
LENGTH: 10
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US-09-572-404B-2399
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US-09-572-404B-2387
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OTHER INFORMATION: sequence located in C8A at 82-91 and may interact with Sequence
OTHER INFORMATION: this patent.
US-09-572-4048-2385
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Publication No. US20030078374A1
GENERAL INFORMATION:
APPLICANT: Proteom Ltd
TITLE OF INVENTION: Complementary peptide ligands from the human genome
FILE REFERENCE: Human patent
CUCRENT APPLICATION NUMBER: US/09/572,404B
CURRENT FILING DATE: 2000-05-17
NUMBER OF SEQ ID NOS: 4203
SOFTWARE: ProtPatent version 1.0
SEQ ID NO 2387
LENGTH: 10
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CURRENT FILING DATE: 2000-05-17
NUMBER OF SEO ID NOS: 4203
SOFTWARE: ProtPatent version 1.0
SEO ID NO 2385
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ORGANISM: Homo Sapiens
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TITLE OF INVENTION: Complementary peptide ligands from the
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ORGANISM: Homo Sapiens
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APPLICANT: Proteom Ltd
TITLE OF INVENTION: Complementary peptide ligands fro
FILE REFERENCE: Human patent
CURRENT APPLICATION NUMBER: US/09/572,404B
CURRENT FILING DATE: 2000-05-17
NUMBER OF SED ID NOS: 4203
SOFTWARE: ProtPatent version 1.0
SEQ ID NO 2425
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US-09-572-404B-2425
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US-09-572-404B-2425
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SOFTWARE: ProtPatent version 1.0
SEQ ID NO 2401
LENGTH: 10
TYPE: PRT
ORGANISM: Homo Sapiens
FEATURE:
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; OTHER INFORMATION: sequence located in C8A at 81-90 and may interact with Sequence 2
; OTHER INFORMATION: this patent.
US-09-572-404B-2399
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US-09-572-404B-2401
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CURRENT APPLICATION NUMBER: US/09/572,404B
CURRENT FILING DATE: 2000-05-17
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US-09-572-404B-2485
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Sequence 2533, Application US/09572404B
Publication No. US20030078374A1
GENERAL INFORMATION:
APPLICANT: Proteom Ltd
TITLE OF INVENTION: Complementary peptide ligands from 1
FILE REFERENCE: Human patent
CURRENT APPLICATION NUMBER: US/09/572,404B
CURRENT FILING DATE: 2000-05-17
NUMBER OF SEQ ID NOS: 4203
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LENGTH: 10
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Publication No. US20030078374A1
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Best Local :
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TITLE OF INVENTION: Complementary peptide ligands
FILE REFERENCE: Human patent
CURRENT APPLICATION NUMBER: US/09/572,404B
CURRENT FILING DATE: 2000-05-17
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SOFTWARE: ProtPatent version 1.0
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                                                                                                                                                                  FILE REFERENCE: Human patent
CURRENT APPLICATION NUMBER: US/09/572,404B
CURRENT FILING DATE: 2000-05-17
NUMBER OF SEQ ID NOS: 4203
SOFTWARE: ProtPatent version 1.0
SEQ ID NO 2557
                                                                                                                                                                                                                                                                                              Sequence 2557, Application US/09572404B Publication No. US20030078374A1 GENERAL INFORMATION:
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TITLE OF INVENTION: Complementary peptide ligands from
                                                                                                                        TYPE: PRT
ORGANISM: Homo Sapiens
                                                                         OTHER INFORMATION: sequence located in C8A at 83-92 and may interact with Sequence OTHER INFORMATION: this patent.
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ORGANISM: Homo Sapiens
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Pred. No.
                Score 18;
Pred. No.
                DB 10;
2.7e+03;
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2.7e+03;
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2.7e+03;
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RESULT 13
US-10-354-240-141
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MOLECULE TYPE: None
SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-10-763-992-32
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US-10-763-992-32
                                                                                                                                                                Matches
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SEQUENCE CHARACTERISTICS:
LENGTH: 12 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                            Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/09/418,887
EILING DATE: 15-OCT-1999
APPLICATION NUMBER: US/08/946,869
FILING DATE: 08-OCT-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DCCKET NUMBER: 5697.US.P1
TELECHONE: 847/935-1729
TELECHONE: 847/935-1729
                                                                                                                                                            Local Similarity
les 2; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/763,992
FILING DATE: 22-Jan-2004
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        KRATOCHVIL, Jon D.
ROBERTS-RAPP, Lisa
RUSSELL, John C.
STROUPE, Steven D.
STROUPE, Steven D.
METHODS USEFUL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 35
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CITY: Abbott Park
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 60064-3500
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Application US/10354240
                                                                                                                                                            Conservative
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HODGES, Steven C.
KLASS, Michael R.
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                                                                                                                                                       Score 18; DB 16; Length 12; Pred. No. 3e+03; 0; Mismatches 5; Indels
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                                                                                                                                                                                                                                                                                          APPLICANT: Iwana, Akiko
APPLICANT: Iwana, Akiko
APPLICANT: Kino, Kohsuke
TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disease
FILE REFERENCE: SPO-101D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR FILING DATE: 1997-03-10
PRIOR FILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: US 09/142,524
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
SOPTWARE: PatentIn version 3.1
SEQ ID NO 142
SEQ ID NO 142
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APPLICANT: Sone, Toshio
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Sone, Toshio
APPLICANT: Kume, Akinori
                                                                                                                                                         NAME/KEY: MISC_FEATURE
LOCATION: (1)...(15)
OTHER INFORMATION: Cryj2 peptide, Figure 2,
                                                                                                                                                                                                                            TYPE: PRT
ORGANISM: Cryptomeria japonica
FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Peptide-Based Immunotherapeutic Agent for Treating Allergic Disea FILE REFERENCE: SPO-103D1
CURRENT APPLICATION NUMBER: US/10/354,240
CURRENT FILING DATE: 2003-01-29
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR APPLICATION NUMBER: PCT/JP97/00740
PRIOR TILING DATE: 1997-03-10
PRIOR APPLICATION NUMBER: US/10/2524
PRIOR APPLICATION NUMBER: US/10/2524
PRIOR FILING DATE: 1998-09-09
NUMBER OF SEQ ID NOS: 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Publication No. US20030185847A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: MISC_FEATURE
LOCATION: (1)...(15)
OTHER INFORMATION: Cryj2 peptide, Figure 2,
                                                                                                                                                                                                                                                                                      ENGTH: 15
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: Iwama, Akiko
: Kino, Kohsuke
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Dairiki, Kazuo
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28.6%;
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Pred. No. 3.3e+03;
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Sequence 1778, Application US/1022567A

Publication No. US20030113798A1

GENERAL INFORMATION:
APPLICANT: LifeSpan Biosciences
APPLICANT: LifeSpan Biosciences
APPLICANT: Burmer, Glenna C.
APPLICANT: Burmer, Glenna C.
APPLICANT: Roush, Christine L.
TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
FILE REFERENCE: 1920-4-4

CURRENT APPLICATION NUMBER: US/10/225,567A

CURRENT APPLICATION NUMBER: 60/257,144

PRIOR APPLICATION NUMBER: 60/257,144

PRIOR FILING DATE: 2000-12-19

NUMBER OF SEQ ID NOS: 2292

SOFTWARE: Patentin version 3.1

SEQ ID NO 1778

LENGTH: 18

TYPE: PRT

COCANISM: Homo sapiens
US-10-225-567A-1778
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Search completed: December 22, 2004, 06:37:49 Job time : 145 secs
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US-10-225-567A-1778
                                                                                                                                                                                                                    Query Match 33.3%; Score 18; DB 14; Length 18; Best Local Similarity 28.6%; Pred. No. 3.7e+03; Matches 2; Conservative 0; Mismatches 5; Indels
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Result
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Maximum
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Listing first 45
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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length: 2000000000
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Match
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1: pir1:*
2: pir2:*
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54
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76.480 Million cell updates/sec
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492
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131	131	130	128	128	117	110	108	103	100	93	93	89	78	76	76	
N	N	N	N	μ	N	N	N	N	N	N	N	N	N	N	N	
I56894	A43980	A54762	G97176	A57321	JC2210	D72701	S17201	G84741	T17962	A97190	E83307	S55780	E81853	C44007	D44007	
complement regulat	neurophysin 2 [val	phospholipase A2 (stress-induced pro	E48 antigen precur	thypothetical 12.6	hypothetical prote	protein kinase (EC	hypothetical prote	hypothetical prote	hypothetical prote	hypothetical prote	Hox C6 protein - e	probable transposa	aptotoxin VI - tra	aptotoxin IV - tra	

ALIGNMENTS

R,Himmelreich, R.; Hilbert, H.; Plagens, H.; Pirkl, E.; Li, B.C.; Herrmann, R. Nucleic Acids Res. 24, 4420-4449, 1996
A;Title: Complete sequence analysis of the genome of the bacterium Mycoplasma pneumoniae A;Reference number: S73327; MUID:97105885; PMID:8948633
A;Accession: S73440

hypothetical protein B01_orf103b - Mycoplasma pneumoniae (strain ATCC 29342) C;Species: Mycoplasma pneumoniae A;Variety: ATCC 29342 A;Variety: ATCC 29342 A;Variety: ATCC 29342 C;Date: 26-Feb-197 #sequence_revision 25-Apr-1997 #text_change 09-Jul-2004 C;Accession: S73440

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A;Molecule type: DNA
A;Residues: 1-121 <ALB>
A;Residues: 1-121 <ALB>
A;Cross-references: GB:S44811; GB:X64273; NID:g60318; PIDN:CAA45565.1; PID:g60319
C;Genetics:
A;Gene: 15
C;Superfamily: Ly-6 antigen; Ly-6 homology
C;Kywords: glycoprotein; lipoprotein; phosphatidylinositol linkage
F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-96/Product: surface glycoprotein #status predicted <SGP>
F;20-96/Domain: Ly-6 homology <LY6>
F;97-121/Domain: carboxyl-terminal propeptide #status predicted <CPP>
                                                                                                                                                                                                                                                                                                                                               surface glycoprotein CD59 precursor homolog - saimiriine herpesvirus 1 (strain 11) C;Species: saimiriine herpesvirus 1 A;Note: host Saimiri sciureus (common squirrel monkey) C;Date: 31-Dec-1992 #sequence_revision 31-Dec-1992 #text_change 22-Jun-1999 C;Accession: A43384; F36607 P(Accession: A43384; MUID: 92410640; PMID: 1382344 P(Accession: A43384; MUID: 92410640; PMID: 1382344 P(Accession: A43384; MUID: 92410640; PMID: 1382344 P(Accession: A43384)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: UNIPROT:P75074; EMBL:AE000014; GB:U00089; NID:g1673770; PIDN:AAB9576
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, November 1996
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Status: preliminary; nucleic acid sequence not shown; translation not shown A;Molecule type: DNA A;Residues: 1-103 <HIM>
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3; Conserv
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13.6%;
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; Pred. No. 2.4e
0; Mismatches
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A;Molecule type: DNA
A;Residues: 1-157 <CHS>
A;Residues: 1-157 <CHS>
A;CHS
A;CCOSG-references: UNIPROT:P16815; EMBL:X17403; NID:g59591; PIDN:CAA35401.1; PID:e27241
A;Note: this sequence was submitted to the EMBL Data Library, December 1989
A;Note: this reading frame extends between two stop codons and does not begin with a staC;Superfamily: human cytomegalovirus hypothetical protein UL42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Molecule type: mRNA
A; Residues: 25-54, A', 56-62, M', 64-67, 'Q', 69-71, 'DHI', 75-77, 'V', 79-80, 'T', 82-85, 'T', 87, 'A; Residues: 25-54, 'A', 56-62; NID:g205245; PIDN:AAA41545.1; PID:g205246
A; Experimental source: clone RK6
A; Experimental source: clone RK6
C; Superfamily: Ly-6 antigen; Ly-6 homology
C; Keywords: blocked carboxyl end; glycoprotein; lipoprotein; phosphatidylinositol linkag
F; 1-26; Domain: signal sequence # status predicted <SIG>
F; 1-26; Domain: signal sequence # status predicted carboxyl end; dann) (in mature form
                                                                                                                                                                                                                                                                                                                                           Curr. Top. Microbiol. Immunol. 154, 125-169, 1990 A;Title: Analysis of the protein-coding content of the sequence A;Reference number: S09749; MUID:90269039; PMID:2161319 A;Accession: S09805
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Note: host Homo sapiens (man)
C;Date: 07-Sep-1990 #sequence_revision 07-Sep-1990 #text_change 09-Jul-2004
C;Accession: S09805
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C;Species: R
C;Date: 03-M
                                                                                                                                                                                                                                                                                                                                                                                                                                     M.; Barrell,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hypothetical protein UL42 - human cytomegalovirus (strain AD169)
C;Species: human cytomegalovirus, human herpesvirus 5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      R; Chee, M.S.; Bankier, A.T.; Beck, S.; Bohni,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Accession: B45835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: UNIPROT:Q63317; GB:M30689; NID:g205247; PIDN:AAA41546.1; A;Experimental source: clone RK10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: mRNA
A; Residues: 1-135 <FRI>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Accession: A45835
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A; Title: Analysis of three distinct Ly6-A-related cDNA sequences
A; Reference number: A45835; MUID:90152758; PMID:2154400
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                                                                                                   147/Binding site: carbohydrate
                                                                                                                      Keywords: glycoprotein; transmembrane protein;117-143/Domain: transmembrane #status predicted <TMM>
                                                                                                                                                                                                                                                                                                                Status: nucleic acid sequence not shown;
                                                        Query Match
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Accession: A45835, B45835 מים אין Sirlin, S.; Haemmerling, U.
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            Conservative
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                           Score 18; DB 2;
Pred. No. 5.4e+02;
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  Pred. No. 5.400; Mismatches
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Pred. No. 5e+02;
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Pred. No. 4.8e
0; Mismatches
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                                                                                                                              A;Molecule type: DNA
A;Residues: 1-381 <KUR>
A;Cross-references: UNIPROT:Q8UF98; GB:AE007869; PIDN:AAK87291.1; PID:g15156585;
C;Genetics:
C;Genetics:
A;Gene: AGR C_2765
A;Map position: circular chromosome
C;Superfamily: rplA lipoprotein
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B97542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Genetics:
A;Gene: T13E15.5; At2g44940
A;Gene: T03E15.5; At2g44940
                                                                                                                                                                                                                                                                                                                             A;Title: Genome Sequence of the Plant Pathogen and Biotechnology A;Reference number: A97359; MUID:21608551; PMID:11743194 A;Accession: B97542
                                                                                                                                                                                                                                                                                                                                                                                             R;Goodner, B.; Hinkle, G.; G:
A.; Liu, F.; Wollam, C.; Al.
Science 294, 2323-2328, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hypothetical protein AGR_C_2765 [imported] - Agrobacterium tumefaciens (strain C;Species: Agrobacterium tumefaciens C;Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004 C;Accession: B97542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: UNIPROT:022158; EMBL:AC002388; NID:g33420042; PID:g2344890
A;Experimental source: cultivar Columbia
R;Lin, XGaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.
M.; KOO, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, 1
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter,
Nature 402, 761-768, 1999
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A;Description: Arabidopsis thaliana chromosome II BAC T13E15 genomic sequence. A;Reference number: Z14146
A;Accession: T00399
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A; Residues: 1-295 <S'
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A; Residues: 1-295 < ROU>
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                                                                                                                                                                                                                                                                                                                                                                                                                 G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.;
                                                                  33.3%;
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Pred. No. 7.1e
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Pred. No. 8e+02;
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C.D.; Fujii, C.x., Tallon, L.; Tallon, L.; Tonter, J

S.M.

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Agent

Agrobacterium

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GSPDB:GI

B.; Goldm; Markelz,

Goldman, kelz, B.;

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rare lipoprotein A [imported] - Agrobacterium tumefaciens (strain C58, Dupont)

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RESULT 9
T24196
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;Keywords: glycoprotein; receptor; transmembrane protein
;58-79/Domain: transmembrane #status predicted <TM1>
;58-79/Domain: transmembrane #status predicted <TM2>
F;91-113/Domain: transmembrane #status predicted <TM3>
F;118-149/Domain: transmembrane #status predicted <TM3>
F;171-193/Domain: transmembrane #status predicted <TM5>
F;218-239/Domain: transmembrane #status predicted <TM5>
F;260-280/Domain: transmembrane #status predicted <TM6>
F;260-280/Domain: transmembrane #status predicted <TM7>
F;260-280/Domain: transmembrane #status predicted <TM6>
F;260-280/Domain: transmemb
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A;MoTecule type: mRNA
A;Residues: 1-404 <HAB>
A;Cross-references: UNIPROT:O15218; GB:Y13583; NID:g2652933; PIDN:CAA73910.1; PID:g26529
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C;Species: Homo sapiens (man)
C;Date: 24-Jan-1998 #sequence_revision 13-Mar-1998 #text_change 09-Jul-2004
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A;Residues: 1-381 <KUR>
A;Cross-references: UNIPROT:Q8UF98; GB:AE008688; PIDN:AAL42506.1; PID:g17739925; GSPDB:
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A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58
A;Reference number: AB2577; MUID:21608550; PMID:11743193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Authors: Yoo, H.; Tao, ster, E.W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, I erage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell; Karp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001
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Best Local S
Matches 2
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2; Conserv
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nilarity 28.6%;
Conservative
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28.6%;
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Pred. No. 8e+0
0; Mismatches
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Pred. No.
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8.2e+02;
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8e+02;
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RESULT 11
JC7366
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C;Date: 16-Feb-1995 #sequence_revision 12-May-1995 #text_change 09-Jul-2004
C;Accession: S49147; I37372
R;Nie, X.F; MacLean, R.N.; Kumar, V.; McKray, I.A.; Bustin, S.A.
submitted to the EMBL Data Library, April 1994
A;Reference number: S49147
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submitted to the EMBL Data Library, March
a-Reference number: Z19852
Jun a 2 protein - mountain cedar
C;Species: Juniperus ashei (mountain cedar)
C;Date: 17-Nov-2000 #sequence_revision 17-Nov-2000 #text_change 09-Jul-2004
C;Date: 17-Nov-2000 #sequence_revision 17-Nov-2000 #text_change 09-Jul-2004
C;Accession: JC7366; PC7093
R;Yokoyama, M.; Miyahara, M.; Shimizu, K.; Kino, K.; Tsunoo, H.
Biochem. Biophys. Res. Commun. 275, 195-202, 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Cross-references: C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gene 152, 285-286, 1995
A;Title: ERF-2, the human homologue of the murine Tisl1d early response gene.
A;Reference number: 137372; MUID:95137407; PMID:7835719
A;Accession: 137372
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C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T24196
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A;Cross-references: GDI
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A; Residues: 1-492 < RES>
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R;Nie, X.F.; Maclean, K.N.; Kumar, V.; McKay, I.A.; Bustin,
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A;Experimental source: clone R11H6
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Best Local
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28.6%;
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28.6%;
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Pred. No. 8.6e
0; Mismatches
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Pred. No.
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A; Title: Purification, identification, and cDNA cloning of

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the second major alle

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A; Molecule type: protein
A; Residues: 52-61 <KO2>
R; Sakaguchi, M.; Inouye, S.; Taniai, M.; Ando, S.; Usui, M.; Mat R; Sakaguchi, M.; Inouye, S.; Taniai, M.; Ando, S.; Usui, M.; Mat Allergy 45, 309-312, 1990
A; Title: Identification of the second major allergen of Japanese A; Reference number: A60147; MUID:90342988; PMID:2382797
A; A; Accession: A60147
A; Molecule type: protein
A; Residues: 55-64 <KSAK>
C; Keywords: glycoprotein; pollen
F; 1-54/Domain: signal sequence #status predicted <SIG>
F; 1-54/Domain: signal sequence allergen Cry j #status predicted
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A;Accession: JC7366
A;Molecule type: mRNA
A;Residues: 1-507 <YOK>
A;Cross-references: UNIPROT:Q9FY19; GB:AJ404653
A;Accession: PC7093
A;Molecule type: protein
A;Residues: 55-63 <YO2>
C;Comment: This protein, a second major allergen of the polygalacturonase family.
C;Keywords: glycoprotein; pollen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cry j II protein - Japanese cedar
C;Species: Cryptomeria japonica (Japanese cedar)
C;Date: 07-May-1995 #sequence_revision 21-Jul-1995 #text_change 09-Jul-2004
C;Accession: $48730
R;Namba, M.; Kurose, M.; Torigoe, K.; Hino, K.; Taniguchi, Y.; Fukuda, S.; Usui,
                                                                                                                                                                                                                                                                                                                                                                              R;Komiyama, N.; Sone, T.; Shimizu, K.; Morikubo, K.; Kino, K. Biophys. Res. Commun. 201, 1021-1028, 1994 A;Title: CDNA cloning and expression of Cry j II, the second A;Reference number: JC2498; MUID:94271186; PMID:8002972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      second major allergen Cry j II precursor - Japanese cedar C;Species: Cryptomeria japonica (Japanese cedar) C;Date: 16-Mar-1995 #sequence revision 26-May-1995 #text_change C;Accession: JC2498; PC2346; A60147
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A; Residues: 1-514 < KOM>
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A; Residues: 1-514 < NA
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Pred. No. 9.2e+02;
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RiJinno, S.; Suto, K.; Nagata, A.; Igarashi, M.; Kanaoka, Y.; Nojima, H.; Okayama, EMBO J. 13, 1549-1556, 1994
A;Title: Cdc25A is a novel phosphatase functioning early in the cell cycle.
A;Reference number: I53194; MUID:94208523; PMID:8156993
A;Accession: I53194
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153194
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Best Local Similarity
Thes 2; Conserve
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A;Title: Purification, identification, and cDNA cloning of Cha A;Reference number: JC7100; MUID:99417540; PMID:10486272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polygalacturonase Cha o 2 - Japanese cypress (;Species: Chamaccypris obtusa (Japanese cypress) C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004 C;Accession: JC7100; PC7026
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT
JC7100
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C;Superfamily: human protein-tyrosine-phosphatase cdc25A; cdc25-type protein-tyrosine-phosphatase homology <PTP>
                                                                                                                                                                                                                                                                                                                                                                                                                     C;Species: Rattus sp. (rat)
C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 22-Jun-1999
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A;Molecule type: protein
A;Residues: 51-62 <MO2>
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A; Residues: 1-525 < RES>
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A; Residues: 1-514 < MOR>
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